

PYTHON CODE TO PUBLISH DATA TO IBM CLOUD

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Project Name	Gas Leakage Monitoring and Alerting System
Maximum Mark	4 marks

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```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "awatby",
        "typeId": "714019106043 ",
        "deviceId": "714019106043"
    },
    "auth": {
        "token": "714019106043"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" %
          cmd.data['command'])
    m=cmd.data['command']
    client = wiotp.sdk.device.DeviceClient(config=myConfig,
        logHandlers=None)
    client.connect()
```

```
while True:
    gas=random.randint(0,100)
    temp=random.randint(0,100)
    hum=random.randint(0,100)
    pre=random.randint(0,100)
    myData={'Hazardous Gas':gas, 'Temperature':temp, 'Humidity':hum,
    'Pressure':pre }
    client.publishEvent(eventId="status", msgFormat="json", data=myData,
    qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
    client.disconnect()
```